

**ATOMIC ENERGY EDUCATION SOCIETY**

**(2015-16)**

Sub: Science

Sample Paper

Class: 7

**SECTION A**

Answer the following questions from the given choices

- 1) The deepest layer of the soil profile is called-----  
a) B- horizon    b) C- horizon    c) A- horizon    d) bedrock
- 2) The skeletal structure surrounding the chest cavity is called----  
a) Diaphragm    b) tracheae    c) ribs    d) pharynx
- 3) The percentage of carbon dioxide in the exhaled air is-----  
a) 4.4%    b) 0.04%    c) 0.03%    d) 16.4%
- 4) The soil which is most suitable for paddy is -----  
a) Clayey    b) sandy    c) loamy    d) red
- 5) The main excretory products of birds is-----  
a) Ammonia    b) urea    c) uric acid    d) salt
- 6) ----- is not a vegetative part of the plant.  
a) Stem    b) root    c) flower    d) leaf
- 7) The soil which can hold very little water is-----  
a) Clayey soil    b) sandy soil    c) loamy soil    d) black
- 8) The part of plant which is responsible for the absorption of water from the soil is -----  
a) Xylem    b) root hair    c) stomata    d) phloem
- 9) the urine in human beings contain-----% of water.  
a) 2.5    b) 95    c) 90    d) 5
- 10) ----- is a plant which reproduces through leaf buds.

a) Cucuta      b) rose      c) shoe flower      d) bryophyllum

11) Falcons can fly at speed of 320 Km/ h. What is the distance covered by it when it flies continuously for 3 hours at the same speed.

a) 320 km      b) 960km/h      c) 960km      d) 320km/h

12) The distance covered by a vehicle is measured by a device called -----

a) speedometer   b) odometer   c) anemometer   d) none of these

13) The process of water seepage into the ground is called-----

a) Infiltration   b) condensation   c) evaporation   d) transpiration

14) The branches of tall trees look like a roof over the other plants in the forest. This is called -----

a) Understory   b) canopy   c) crown      d) none of these

15) Water harvesting is done by -----

a) Bawris      b) check dams   c) both a and b   d) none

## SECTION B

Answer the following questions in 2 or 3 sentences

16) Name the parts of the male reproductive system of a flower.

17) It is said that oils and fats should not be released into the drains. Why?

18) In what way transpiration is important for plants?

19) Forest plays a major role in maintaining the balance between Oxygen and Carbon dioxide in the atmosphere. How?

20) Mention any two factors responsible for the depletion of water table.

21) Draw the diagrams of a convex lens and a concave lens.

22) How does drip irrigation help to conserve water?

23) Differentiate between a real image and a virtual image.

24) Bharat was doing an activity with his simple pendulum. He observed that his pendulum takes 44 seconds to complete 20 oscillations. What is the time period of his pendulum?

25) Draw a soil profile and label the parts.

26) Write two differences between self-pollination and cross pollination.

### SECTION C

Answer the following questions 4 or 5 sentences.

27) Anup was travelling from Agra to Delhi. He drove his car at speed of 80 km/h for the first 1 hour and 60 km/h for the next two hours. What is the distance between Agra and Delhi?

28) Draw the schematic diagram of circulation of blood in humans.

29) Mention any 3 components of blood and their function

30) Name the following.

a) The air tubes of insects.

b) Muscular floor of chest cavity

c) The pores on the surface of leaves

31) Anita got cramps in her legs after participating in a 400 m race. What must be the reason for her muscular cramps? Suggest her any 2 ways to get relief from the cramps.

32) The following data shows the percolation capacity of 3 different kinds of soil. Based on the data, answer the following questions.

soil	Percolation rate
Sample A	10mL/min
Sample B	14mL/min
Sample C	20mL/min

- a) Which soil sample is sandy soil?
- b) Which soil sample has the highest water holding capacity?
- c) How much of water will be percolated by soil B in 10 minutes?

33) Match the following

Column I	column II
a. Growing plants prevent	plastic
b. This soil is used for making pottery	soil erosion
c. This should be avoided to prevent Soil pollution	clayey soil
d. Uppermost layer of the soil	soil profile
e. Home for living organism	dark in colour
f. Collective name for layers of soil	all kinds of soil

34) Draw the diagram of human respiratory system and label any two parts.

35) Draw the shape of the distance time graph for the motion of the car with constant speed.

36) Write any 3 characteristics of the image formed by a plane mirror.

37) As a student of class VII what steps would you take to minimise the use of water?(minimum 3 points)

#### SECTION D

Answer the following questions in detail

38 Explain the process of reproduction in yeast cells with the help of a neat diagram.

39) Briefly explain how waste water is treated in waste water treatment plant.

40) What is the role of decomposers in conserving forest?

41) Explain the importance of forest (minimum 5 points)

42) With the help of a diagram write an activity to show that soil  
Contains water

